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TITLE: NONAQUEOUS ELECTROLYTE BATTERY AND ITS MANUFACTURE

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ABSTRACT:

PURPOSE: To provide a nonaqueous electrolyte secondary battery with high cycle performance, low cost, and long life and provide its manufacture.

CONSTITUTION: A nonaqueous electrolyte battery 1 comprises a positive electrode 11 capable of absorbing/desorbing lithium, a negative electrode 12 made of at least one of a lithium alloy, a material or a conductor capable of absorbing/desorbing lithium, a separator 13, a nonaqueous electrolyte 14, and a battery container 15. The negative electrode 12 has on its surface a film containing lithium fluoride, for example. The film containing lithium fluoride is formed in such a way that when the nonaqueous electrolyte is prepared, the surface of the negative electrode 12 is reacted with water, then reacted with hydrogen fluoride.

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